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1 out-of-spec results besides the three we just talked  
2 about?

3 A. Let me just check one location.

4 For clarity to answer your question, by  
5 "repetitive," I think it's the same location failed  
6 repeated -- but not repetitively. I think I misstated  
7 it. It's the same location failed in several of these  
8 batches.

9 Q. Well, my question is: Do you know of any  
10 other batches --

11 A. Other than these three, no.

12 MR. MILLER: You have to wait.

13 Q. And the three that the FDA is referring to  
14 are 70148A; right?

15 A. Uh-huh.

16 Q. That's a yes?

17 A. Yes, sir.

18 Q. 70207A?

19 A. 7070A (sic), yes, sir. And 70207A, yes, sir.

20 Q. So in the last paragraph of Page 10 of your  
21 report, when you talk about the firm "struggling with  
22 the procedure and repetitive failures," these are the  
23 only three of which you are aware; correct?

24 A. Those are the three that I'm aware; in  
25 addition to my own experience in how difficult this

1 task can be.

2 Q. And the last part of your statement says,  
3 "Blend sampling program was ineffective and not  
4 predictive of final product quality."

5 What's the basis for that statement?

6 A. My basis for that statement is: If you  
7 cannot isolate that the blend itself is uniform or  
8 non-uniform, this gets back to: Is the sample  
9 reliable or not, you cannot assume that the blend is  
10 indicative of anything downstream. It gets back to  
11 the continuum of the whole structure.

12 It really gets back to the heart of my first  
13 comment, the comment we had about the blend.

14 On -- in balance, this stuff is -- everything  
15 seems right. But if you start to pull things out of  
16 context and ask the questions in an investigation, it  
17 starts to bring to light a systematic problem that,  
18 again, is inferential at best at this stage, Matt, if  
19 you know --

20 Q. But you have to pull it out of context to do  
21 that; right?

22 A. And, again, someone skilled in the art like  
23 myself would do that.

24 Q. So I want to jump ahead just for a moment.

25 A. Go ahead.

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1 Q. You have looked at all the annual reports  
2 which nicely condense and summarize the finished  
3 product test data for this product; correct?

4 A. No, I did not.

5 Q. You haven't looked at the annual reports?

6 A. No, sir.

7 Q. Do you know whether any batch of Digitek,  
8 just among the recalled batches, failed finished  
9 product testing?

10 A. I believe one did, sir.

11 Q. Which one?

12 A. That I'd have to check.

13 Q. Just so we are clear. Do you know of a  
14 single batch of Digitek that was submitted to the QC  
15 testing for its USP testing that failed those tests?

16 MR. MILLER: Object to form.

17 Q. And if you know of one, tell me what batch  
18 number it was?

19 A. I can't tell you what batch number it is. I  
20 only have a picture of a rejected form. I'd have to  
21 go back and dig it out. I know it's not in this pile.

22 Q. Okay. Well, do you know of any batch that  
23 was actually sent to market that failed finished  
24 product testing at Actavis?

25 A. If all -- if all of the parts and pieces are

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1 working together, that should never happen, sir.

2 Right?

3 Q. Well, you know that each batch is tested;  
4 correct?

5 A. Right, right.

6 Q. And that there is actual data available;  
7 correct?

8 A. Uh-huh.

9 Q. So have you looked at the data to see whether  
10 any batches failed finished product testing?

11 A. In the batches I looked at, no. Only the  
12 batches I looked at.

13 Q. Well, let's just start with the recall. Out  
14 of the 152 batches that were actually sent through  
15 Mylan to pharmacies, did any of them fail final  
16 product testing?

17 A. Not to my knowledge, sir.

18 Q. And if we tried to do the math, and I haven't  
19 done it before today, if we just take the 152 recalled  
20 batches, and say that there were 30 blend  
21 uniformity -- I'm sorry.

22 MR. MORIARTY: Let me withdraw that question.

23 Q. We just take the recalled batches and say  
24 that there was one blend uniformity battery for the  
25 whole batch, that would be ten samples per batch;

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1 correct?

2 A. Thirty.

3 Q. Well, let's just take one set of them, not  
4 three deep. You are talking about 1,520 blend  
5 samples; correct?

6 A. For those batches.

7 Q. Yes. Right?

8 A. Right, 152 times ten.

9 Q. And there were three that were out of spec;  
10 right?

11 A. Uh-huh.

12 Q. That's a yes?

13 A. Yes, sir.

14 Q. Each of the three that were out of spec  
15 weren't confirmed on retesting; correct?

16 A. That's correct.

17 Q. And you think even if those batches were  
18 included in the recall set, which we are not sure they  
19 are, three out of 1,520 constitutes repeated failures  
20 that are predicted -- mean that blend uniformity  
21 aren't predictive of final product quality?

22 A. Absolutely. The reason is because of the  
23 uncertainty in doing the sampling.

24 Q. All right. Did FDA ever actually say that  
25 any Actavis batches of Digitek failed blend uniformity

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1 testing?

2 A. They called it out of specification. They  
3 didn't say it failed.

4 Q. Okay. Did they ever say that any batches of  
5 Digitek failed blend uniformity testing?

6 A. Not that I recall, other than what's here.

7 Q. If somebody just colloquially -- colloquially  
8 said that those three were blend uniformity failures,  
9 that wouldn't technically be correct; would it?

10 MR. MILLER: Object to form.

11 A. I want to make sure I -- may I have the  
12 question again, please?

13 Q. If somebody colloquially --

14 A. Okay.

15 Q. -- said those three are blend uniformity  
16 failures, that would not be technically correct?

17 MR. MILLER: Object to form.

18 Q. Am I right?

19 A. If you do the repeat test and they pass, no.  
20 To be clear, there is FDA guidance on doing  
21 just that.

22 Q. We have only got a couple of minutes left on  
23 the tape, so we might as well take our break now.

24 THE VIDEOGRAPHER: Please stand by.

25 MR. MORIARTY: And we're off the record?

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1 THE VIDEOGRAPHER: We are going off the record.

2 The time is 11:02 a.m. This is the end of Tape

3 Number 2.

4 (A recess is taken.)

5

6 CONTINUED DIRECT EXAMINATION BY MR. MORIARTY:

7 THE VIDEOGRAPHER: We are back on the record.

8 The time is 11:12 a.m. This is the beginning of

9 Tape Number 3.

10 Q. Now, Dr. Somma, I touched very briefly  
11 earlier on the concept of batch yields; correct?

12 A. Yes, sir.

13 Q. And would you agree with me that if you  
14 consistently put too much active pharmaceutical  
15 ingredient into your solid oral dose, it could be  
16 detected at a number of different places; and one  
17 might be the inventory of your active pharmaceutical  
18 ingredient; correct?

19 A. Absolutely.

20 Q. Another could be at the blend uniformity  
21 stage. Is that correct?

22 A. That is correct, assuming the sampling and  
23 the testing is good, sure, yeah.

24 Q. Another could be your finished product stage?

25 A. Absolutely. And at that stage it becomes

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1 compounded by the blend part and the compression part.

2 Q. Okay.

3 A. You can still find it. I agree with you.

4 Q. Sure. And if there was testing done by an  
5 outside entity for whatever reason, it could  
6 theoretically be picked up there; correct?

7 A. Theoretically, yes.

8 Q. All right. And if you were consistently  
9 putting too much adverse -- I mean active  
10 pharmaceutical ingredient into your product and it had  
11 the potential to harm patients, another potential  
12 place to see a problem would be an increase in your  
13 adverse event reporting. Is that true?

14 A. I would -- I would agree with that, yes.

15 Q. Okay.

16 A. It's a true statement.

17 Q. Now, I think you told me earlier you are not  
18 an expert in pharmacovigilance; right?

19 A. No, sir.

20 Q. Have you done any study in this case of  
21 Actavis' pharmacovigilance or their adverse effect  
22 reporting rates?

23 A. No, sir.

24 Q. And a pharmacovigilance expert for the  
25 plaintiffs, a Dr. Frank, was deposed yesterday, and I



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1 know you don't know anything about what she said, but  
2 would you generally defer to an expert like her in  
3 pharmacovigilance on the subject -- on that subject in  
4 this case?

5 MR. MILLER: Object to form.

6 A. Absolutely, Matt.

7 Q. Okay. And to stick with this batch yield  
8 concept, if a company consistently made double thick  
9 tablets, there would be a number of places you might  
10 catch that as well; correct?

11 MR. MILLER: Object to form.

12 A. You would expect to catch that at certain  
13 places. I would have to agree with that.

14 Q. For example, even if we just worked  
15 backwards, if you used the appropriate amount of  
16 ingredients from the start but made double-thick  
17 tablets, you wouldn't have as many tablets; right?

18 A. If you made all of them double thick. Yeah.

19 Q. Right.

20 A. Occasionally one, Matt; really,  
21 realistically, you couldn't detect it.

22 Q. I understand that. But I'm saying if you  
23 made lots of them, you wouldn't have as many tablets;  
24 right?

25 A. You're correct.

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1 Q. Okay.

2 A. You're correct.

3 Q. Hence, you wouldn't have as many bottles;  
4 right? To fill at the packaging station?

5 A. You're correct, yeah.

6 Q. And those sort of things are looked at by  
7 companies as further quality checks to see if the  
8 processes are following their validated methods;  
9 right?

10 A. Absolutely correct, Matt. The problem would  
11 have to be pretty extreme, though, to pick it up in  
12 that manner.

13 Q. Okay. Well, it sounded to me like your  
14 pharmaceutical consulting engagement where they had  
15 extra-thick tablets was an instance where there were  
16 just a few among either a batch or several batches;  
17 correct?

18 A. That's right.

19 Q. Was it one batch?

20 A. I looked at the batch that the sample was  
21 returned from.

22 Q. Did they only find them in one batch?

23 A. I don't know what -- to be perfectly honest,  
24 I don't know what else they found. I did not find any  
25 indication of them in the batches, before and after, I

1 looked at; no, sir. There were no complaints, no  
2 returns, no nothing.

3 Q. Okay. And theoretically in order to actually  
4 harm patients, for enough of these to get out into a  
5 lot of bottles and out through the entire distribution  
6 system over years and years, you would have to make a  
7 lot of extra-thick tablets; wouldn't you?

8 MR. MILLER: Object to form.

9 A. I guess, but it only takes one bad tablet to  
10 create a harm, and that's why this complaint was dealt  
11 with like this particular company that I worked for,  
12 yeah.

13 Q. Well, I think we established that you are not  
14 a pharmacokineticist, a pharmacologist; you are  
15 certainly not a physician; correct?

16 A. Definitely not.

17 Q. You don't know whether one Digitek tablet  
18 that was extra thick would harm a patient or not; do  
19 you?

20 A. No, sir. And the fact is that we don't even  
21 know what the composition of that thick tablet was.

22 Q. There could be an extra-thick tablet that's  
23 just bigger because it wasn't compacted appropriately;  
24 right?

25 A. So that would be -- that is certainly within

1 the realm of possibility, yes, sir.

2 Q. All right. So if you subjected that tablet  
3 to a hardness testing, it might shatter like an egg;  
4 correct?

5 A. If it would survive packaging, yes, sir.  
6 Which is what friability and hardness is supposed to  
7 prevent, right.

8 Q. Do you know how many people in the United  
9 States were described digoxin between 2006 and 2008?

10 A. No, sir.

11 Q. Do you know how many prescriptions were  
12 written for digoxin between 2006 and 2008?

13 A. No.

14 Q. Do you know how many people were taking  
15 Digitek between 2006 and 2008?

16 A. No, sir.

17 Q. Do you know how many prescriptions were  
18 written for Digitek between 2006 and 2008?

19 A. No, sir.

20 Q. Now, do you know the theoretical batch size  
21 of a Digitek 125 microgram batch?

22 A. 4.8 million.

23 Q. And the theoretical size for a 250 microgram  
24 is what?

25 A. I think it was 4.2 million, but that's by

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1 memory.

2 Q. Okay.

3 A. I don't know if that's correct.

4 Q. So if you do the math of 152 recalled  
5 batches, you're up in the 688.2 million range for  
6 tablets; are you not?

7 A. Yes.

8 Q. Depending on how many batches of each?

9 A. How many tablets are made; yes, sir.

10 Q. All right.

11 A. It's 152 times 4.8, right, okay.

12 Q. Do you know how many were recalled in either  
13 of the two dose strengths?

14 A. No, sir.

15 Q. Of the number of batches that were actually  
16 recalled from the market, do you know how many of  
17 those tablets never made it to consumers?

18 A. No, sir.

19 MR. MILLER: Object to form.

20 A. No, sir.

21 Q. You know that there was a recall; correct?

22 A. From what you told me, 152 batches; yes, sir.

23 Q. Well -- and tablets were supposed to be sent  
24 from pharmacies and hospitals that still had them back  
25 to a recall center; correct?

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1 A. Right, I was aware of that, yes, sir.

2 Q. Do you know how many tablets were returned?

3 A. No, sir.

4 Q. So I want you to assume that -- and I just  
5 keep referring to the recall batches more for  
6 convenience, but if you want to go back to 2004, we  
7 can.

8 Do you know whether each batch of Digitek  
9 that was made between 2004 and 2008 was subjected to  
10 quality control, USP method, finished product testing?

11 MR. MILLER: Object to form.

12 A. Based on what I've seen, every batch was  
13 tested, yes, sir.

14 Q. Right. And you don't know of any that failed  
15 that testing; do you?

16 A. To my knowledge, no, sir.

17 Q. And you don't have any question or criticism  
18 of the sample size or the method they used; correct?

19 A. No, sir.

20 Q. Or the integrity of the data?

21 A. No, sir.

22 Q. So what I want to ask you is about testing  
23 that was done by other people.

24 A. Okay.

25 Q. Do you know what the batch certification

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1 program was?

2 A. That they -- as I recall, based on what I've  
3 read, it was samples had to be provided to FDA for  
4 them to confirm at their laboratory that these met  
5 requirements.

6 Q. Right. Was that going on when you worked at  
7 Novartis in the '90s?

8 A. I wouldn't know that, sir. I wouldn't.

9 Q. All right. I want to hand you what actually  
10 should be in the stack, Exhibit 4?

11 A. It was right on the top, yes.

12 Q. It should be near the top. I had them in  
13 order.

14 A. It was right here. I remember looking at it.

15 Q. Okay. Do you have Exhibit 4?

16 A. That's it.

17 Q. That's a letter to Amide at the time from  
18 FDA, is it not?

19 A. Yes, sir.

20 Q. Certifying nine batches of Digitek; correct?

21 A. Uh-huh, yes, sir.

22 Q. Presumably all tested by FDA itself. Is that  
23 right?

24 A. That's how I understand that, yes. And they  
25 all met requirements.

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1 Q. And Exhibit 5 is in that stack?

2 A. Yes, it is.

3 Q. Is that a July, 1995 letter from FDA to Amide  
4 exempting them from the batch certification process?

5 A. Yes, it is.

6 Q. Presumably at that point FDA was confident  
7 that Amide was making the product within its  
8 specifications consistently; correct?

9 MR. MILLER: Object to form.

10 A. As far as I read this, yes. Everything was  
11 as they anticipated it would be.

12 Q. Do you know what Quantic Regulatory Services  
13 is?

14 A. It's a consulting firm as far as I know, sir.

15 Q. Do you know anything about them?

16 A. Other than that their specialty is consent  
17 decree remediation. That's the only thing I know  
18 about them.

19 Q. Do you know if they are reliable?

20 A. I couldn't say that one way or the other,  
21 sir.

22 Q. Are they well-regarded by FDA?

23 MR. MILLER: Object to form.

24 A. I think that they are on the list of people  
25 that FDA says to use in consent decree remediation. I



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1 would think that says it right there.

2 Q. Okay. And I'd like you to look in the  
3 exhibit stack for Exhibit 22 and 23. Do you have 22  
4 and 23?

5 A. Yes, I do, Matt.

6 Q. All right. I'm going to have to do this from  
7 memory because I can't find my copies of those two  
8 exhibits, but 22 should be a warning letter from the  
9 FDA. Is that right?

10 A. That's what it says, yes, sir.

11 Q. And -- oh, I found it.

12 At the back, second-to-last page, last  
13 paragraph. They say, "We feel that to provide such  
14 assurance, your firm should promptly initiate an audit  
15 program by a third party having appropriate cGMP  
16 experience to provide assurance that all marketed lots  
17 of drug products that remain within expiration have  
18 their appropriate identity, strength, quality and  
19 purity."

20 Did I read that correctly?

21 A. Yes, you did.

22 Q. This is an invitation by the FDA in a warning  
23 letter to hire a consultant; correct?

24 MR. MILLER: Object to form.

25 A. As I understand it, yes, sir.

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1 MR. MORIARTY: All right. What's wrong with  
2 the form of that question?

3 MR. MILLER: I object to the term  
4 "invitation."

5 MR. MORIARTY: Okay.

6 Q. Let's get back to the basic definition of a  
7 warning letter. A warning letter is not a "you must"  
8 in the eyes of the FDA; correct?

9 A. Yes, Matt. I recall we discussed it and it  
10 was informal.

11 Q. Right. And it is urging voluntary compliance  
12 with the regs; is it not?

13 A. Yes, sir. It's -- you don't ignore them,  
14 Matt. Let's put it that way.

15 Q. I understand from a company perspective you  
16 wouldn't want to ignore them, but --

17 A. Gun to your head?

18 Q. "Invitation" isn't an inappropriate word  
19 when -- in your mind, when I asked you that question;  
20 is it?

21 A. To be honest, I was thinking what -- what  
22 they were asking here/ and to me, yeah, well, that  
23 means you better get yourself a consultant, period,  
24 end of story.

25 Q. Okay.

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1 A. You know.

2 Q. All right.

3 A. What you call it, whatever.

4 Q. All right. Let's go to Exhibit 23.

5 Have you ever seen Exhibit 23 before?

6 A. No, sir.

7 Q. All right. Exhibit 23, do you know --

8 MR. MORIARTY: Let me withdraw and start over.

9 Q. Do you know that in response to Exhibit 22,  
10 Actavis went out and hired Quantic Regulatory Services  
11 to do the remediation of that warning letter?

12 A. I did not know that as fact.

13 Q. Okay. Well, I want you to assume that my  
14 client hired Quantic, and that Quantic looked at  
15 batch -- batch records. Okay?

16 Now, if you look, if you flip through here  
17 you will see that obviously pages are redacted with  
18 the names of other products, but at Bates Page  
19 1867202, 1867202, you see that there are Digitek  
20 batches there?

21 A. Yes, sir.

22 Q. And then if you flip further back to Bates  
23 Page 1867214, and spilling over onto the next page,  
24 there are a number of other Digitek batches; correct?

25 A. Yes, sir.

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1 Q. Do you know what kind of batch record review  
2 they performed?

3 A. No, sir.

4 Q. You don't know anything about the protocol  
5 they used to analyze the batch records?

6 A. No, Matt, I don't know.

7 Q. All right. Do you know how many of these  
8 batches wound up being in the recall --

9 A. No, sir.

10 Q. -- batches?

11 A. No, sir.

12 Q. Let's go back to the cover page.

13 A. This?

14 Q. Yes. It says, "On December 21st, 2007,  
15 Quantic provided Actavis with a statement indicating  
16 the audit was complete and the manufacturing and  
17 laboratory records have reliably confirmed the  
18 identity, strength, quality and purity of the marketed  
19 products."

20 Do you see that statement?

21 A. Yes, sir.

22 Q. If that is in fact was Quantic concluded, do  
23 you have any reason to disagree with them?

24 A. No, sir, I don't, based on what I know and  
25 what I've read.

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1 Q. Do you know whether or not FDA accepted  
2 Quantic's analysis and this letter from my client in  
3 remediation of the warning letter, or whether they  
4 rejected it?

5 MR. MILLER: Object to form.

6 A. No, sir.

7 Q. Okay. I'm going to go through a number of  
8 exhibits in this stack, so --

9 A. Okay.

10 Q. Let's go to Exhibit 24. Do you have 24?

11 A. Yes, Matt, I do.

12 Q. Have you ever seen it before?

13 A. No, sir.

14 Q. I'm sorry?

15 A. No, sir.

16 Q. You didn't see it yesterday when you met with  
17 Pete and Meghan?

18 A. No, sir.

19 Q. Do you know what a 484 sample is?

20 A. Yes, sir. It's a sample collection, sir.

21 Q. Did FDA ever come to Novartis and collect 484  
22 samples of drug products?

23 A. Yes, sir, but I was not involved. I just  
24 knew of it, sir.

25 Q. So if you go to the first page of Exhibit 24,

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1 and you and I might have to get a lot closer because I  
2 can run you through these quickly.

3 But if you look here --

4 A. Okay.

5 Q. -- this is Sample 377410.

6 A. Yes, sir.

7 Q. Do you see that?

8 A. Yes, sir.

9 Q. Down to the left, it was collected February  
10 9th of 2007. Do you see that?

11 A. Oh, yeah, great. Right here. February 26.

12 Q. I'm pointing to these over here if you want  
13 some guidance. I've highlighted them.

14 A. I'm sorry. Okay. Yeah. February 9th,  
15 right.

16 Q. And in the middle where I'm pointing with my  
17 pinky, it has the manufacturer's batch number as  
18 70078A1. Do you see that?

19 A. Yes, sir.

20 Q. Down here it describes the sample, 200 count  
21 bottles of digoxin, .125. Is that correct?

22 A. Right.

23 Q. And if you want to flip through all this you  
24 can, but I will represent to you that they subjected  
25 this to USP method, assay, content uniformity --

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1 A. Right.

2 Q. -- testing, and all the backup data from the  
3 chromatographs is attached to this. Okay?

4 Do you have any reason to disagree with any  
5 of what I just said?

6 A. Absolutely not. Just for clarity, Matt,  
7 these are -- this was done by the FDA laboratory or  
8 somebody; correct?

9 Q. They tested it; right?

10 A. Yeah, fine.

11 Q. To your knowledge, FDA does have labs that do  
12 this; correct?

13 A. Yes, sir, they do, forensic laboratories.

14 Q. And if you go to this page, if you can see  
15 this page, in the upper right-hand corner where it  
16 says, "District or lab," it says, "DEN/DO."

17 They have a lab in Denver; don't they?

18 A. Uh-huh.

19 Q. Yes?

20 A. Yes.

21 Q. I'm sorry to say that, but Mark needs to hear  
22 it.

23 A. I understand, sir. It's a bad habit of  
24 mine.

25 (A discussion is held off the record.)

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1 Q. And to your knowledge, did this sample pass  
2 all of the tests to which the FDA subjected it?

3 MR. MILLER: Object to form.

4 A. Well, I haven't read through, but my -- based  
5 on what's here, meets, yes.

6 Q. All right.

7 A. There is no reason to think that it doesn't.

8 Q. Let's go to Exhibit --

9 Well, do you have any -- have you seen any  
10 evidence to indicate that this batch did not meet all  
11 of its specifications?

12 A. Absolutely not.

13 Q. Let's go to Exhibit 25. Is this another 484  
14 sample report?

15 A. It's similar format of sample collection,  
16 yes.

17 Q. Up here it says Sample 44881; does it not?

18 A. Yes, sir.

19 Q. And down here if you flip through this, you  
20 can see that they collected -- if you go to the second  
21 page, on December 3rd, 2007 they collected from a  
22 Wal-Mart Pharmacy warehouse 200 count bottles of  
23 Digitek; right?

24 A. Uh-huh, yes, sir.

25 Q. Batch 70298A1; right?



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1 A. 70298A1, yes, sir.

2 Q. And on the first page, if you flip back, they  
3 have a Lab Conclusion near the bottom. It says, "The  
4 product meets specifications for identification,  
5 dissolution and content uniformity." Is that right?

6 A. Yes, it does say that.

7 Q. Now, have you seen any evidence in any  
8 documents that you've reviewed that shows that any of  
9 the tablets from this batch were out of specification?

10 A. No, sir. But where does it say the product  
11 meets specifications on this one? Did I miss that?  
12 I'm sorry. I don't --

13 Q. Are you talking about Exhibit 24?

14 A. I'm sorry. 24, yeah.

15 Q. Do you want to dig through it?

16 A. Well, I just -- it's not a headline like this  
17 one is. I can see that.

18 Q. If you want to review it, go ahead. If you  
19 find that that batch when tested by FDA was out of  
20 specs --

21 A. No.

22 Q. -- let me know.

23 A. I'm agreeing it's in spec. I'm just  
24 wondering how come they don't put it in the front on  
25 this one. Go ahead.

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1 Q. Let's go to Exhibit 26. Look at the second  
2 page of that one. I don't know why it got marked that  
3 way.

4 A. Yes, Matt.

5 Q. Do you have it?

6 A. Yes, sir.

7 Q. It's Sample Number -- the shading is so bad.  
8 Oh, Sample 448892.

9 A. Yes, sir. And that meets requirements.

10 Q. And it was collected in December of 2007 from  
11 a Wal-Mart Pharmacy?

12 A. Yes it was.

13 Q. And it's Batch 70664A. Is that right?

14 A. Yes, it is.

15 Q. And on the first page of Exhibit 26, "The  
16 product meets specifications for identification,  
17 dissolution and content uniformity."

18 Do you see that?

19 A. Yes, sir.

20 Q. Have you seen any evidence the tablets from  
21 this batch were out of specification?

22 A. Not in anything I reviewed.

23 Q. Let's go to Exhibit 27.

24 A. Okay.

25 Q. Before I ask you about Exhibit 27, when you

1 worked for Novartis, were you ever made aware after  
2 the fact that FDA had done a 484 sample and passed  
3 your company's products?

4 A. Not customarily, Matt, no.

5 Q. Okay. As a consultant when you are doing an  
6 investigation about the integrity of the product in  
7 the field --

8 A. Yeah.

9 Q. -- would you inquire about 484 samples that  
10 may have been tested by FDA itself?

11 A. In -- when we would interview the client,  
12 just to get a sense of what the level of involvement  
13 was, yes, sir.

14 Q. Okay. Is it interesting and helpful  
15 information to know?

16 A. It's another set of eyes looking at the  
17 information in an independent laboratory; always good  
18 to have as a backup validation, Matt.

19 Q. It's -- is it more than a set of eyes?  
20 It's -- it's scientific testing of tablets; right?

21 A. It's scientific testing of tablets. I  
22 apologize for denigrating it to "eyes," but that's  
23 what I mean; it's another set of expertise looking at  
24 it. Independent, if it's regulatory or somebody else.

25 Q. Okay. And FDA, when they take the samples,

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1 can take as many as they want; correct?

2 A. That I don't know, sir.

3 Q. Can they test as many as they want?

4 A. Again, I'm ignorant of that fact. I don't  
5 know.

6 Q. Do you assume that FDA chooses a sample size  
7 that they think is statistically significant?

8 A. Based on uniform --

9 MR. MILLER: Object to form.

10 A. I guess that's a reasonable estimate based on  
11 batch size. I would also think that FDA could take  
12 whatever they want.

13 Q. Okay. So let's go to Exhibit 27.

14 A. Okay.

15 Q. This is FDA Sample 453913; correct?

16 A. 453913?

17 Q. Yes?

18 A. Yes, sir, it is.

19 Q. Okay. Collected February 15, 2008; right?  
20 It's up here in the left-hand corner.

21 A. Sorry. Yes, sir.

22 Q. Batch 70737A; correct?

23 A. Yes, sir, yes, sir.

24 Q. And it was collected from a warehouse -- I'm  
25 not sure where. But if you go to the third page,

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1 there's a Lab Conclusion; right?

2 A. Yes.

3 Q. Did it pass all the tests to which FDA  
4 subjected it?

5 A. It says that it meets USP requirements for  
6 identification, CU and dissolution; yes, sir.

7 Q. Let's go to Exhibit 28.

8 Now, I know before today you hadn't seen  
9 these exhibits, but did you know generally that FDA  
10 had repeatedly tested Digitek in the field?

11 A. No, sir.

12 Q. Do you think for your analysis in this case,  
13 it would have been important for you to know that?

14 A. No, sir.

15 Q. You don't think statistically significant  
16 testing by FDA itself corroborating my client's QC  
17 results is significant information?

18 MR. MILLER: Object to form.

19 A. I would say based on balance, if a firm comes  
20 to me and offers a batch record which they say is  
21 approved, I don't need any outside corroboration. To  
22 answer your question specifically, that would have  
23 been nice, but I take it at face value what the client  
24 has done.

25 Q. All right. So Exhibit 28 is FDA Sample

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1 454866; is it not?

2 A. 454866, yes.

3 Q. And it's another sample of a Digitek batch;  
4 correct?

5 A. Yes, sir.

6 Q. And if you look way at the back, the third  
7 from the last page, you will see it was collected  
8 February 15th, 2008. Upper left corner.

9 A. Okay, yes, sir.

10 Q. And it's Batch 70811A; correct?

11 A. Yes, sir.

12 Q. It was collected from a McKesson warehouse.  
13 Is that right?

14 A. In Duluth, yes, sir.

15 Q. And let's go all the way to the front.

16 Is there a Lab Conclusion? First page.

17 A. Same as before, Matt: Meets requirements for  
18 dissolution and content uniformity.

19 Q. Let's go to Exhibit 29, please. Do you have  
20 it?

21 A. Yes, sir.

22 Q. Do you see that it is FDA Sample 462746?

23 A. Correct; yes, sir.

24 Q. And if you go to the third page, you can see  
25 that it's another Digitek sample; correct? Very top in

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1 the center?

2 A. Right.

3 Q. And just below that, they received this  
4 sample in April of 2008; right?

5 A. 4/3/08; yes, sir.

6 Q. And if you go back to the second page -- I'm  
7 sorry. Well, let's just go to the Lab Conclusion.

8 A. Uh-huh.

9 Q. Second page. Did it pass all the tests to  
10 which FDA subjected it?

11 A. Lab Conclusion, it meets specifications; yes,  
12 sir.

13 Q. Was this in a blister pack?

14 A. I'll have to read it, Matt.

15 Q. Third page, halfway down in the big "Summary  
16 of Analysis" box. Do you see that?

17 A. Yeah, I guess I do.

18 Q. All right. And I want you to assume that  
19 this is Actavis batch 70300A. Okay?

20 A. Yes, sir.

21 Q. Have you seen any information to indicate  
22 that that Actavis batch had out-of-specification  
23 tablets?

24 A. No, I did not. Matt, and to confirm your  
25 first question, it is in a blister, based on this

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1 description.

2 Q. And I didn't ask you that last question on  
3 several of these batch exhibits; but have you seen any  
4 evidence to indicate that any of the batches I've  
5 asked you about with these FDA samples were out of  
6 specification?

7 A. Nothing that would -- nothing that would  
8 bring me to that conclusion.

9 Q. All right. So let's go to Exhibit 30.  
10 Is it FDA Sample 462753?

11 A. Yes, it is.

12 Q. Was it collected in March of 2008?

13 A. March 21st, 2008; yes, sir.

14 Q. From a Wal-Mart in California?

15 A. Right; yes, sir.

16 Q. And the batch says, "8A 332."

17 Do you see that?

18 A. Yes, sir.

19 Q. And that is a UDL batch number, which  
20 corresponds to --

21 A. UDL is?

22 Q. That's Batch 70834A.

23 A. I'm sorry. What is UDL?

24 Q. You don't know what UDL is?

25 A. No.



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1 Q. Okay. We'll get to that.

2 A. Okay.

3 Q. This is a Digitek sample, is it not? Exhibit  
4 30? It's right --

5 A. Digitek, right. Got it.

6 Q. And I'd like you to go to the third page of  
7 the exhibit.

8 A. Got it.

9 Q. Is there a Lab Conclusion?

10 A. There sure is.

11 Q. What's the conclusion?

12 A. That they meet specifications for identity --  
13 identification, dissolution and content uniformity.

14 Q. Do you have any evidence from anything in  
15 front of you to indicate that any tablets from this  
16 batch were out of specification?

17 A. No.

18 Q. Let's go to Exhibit 31, please.

19 And I'll represent to you when you get back  
20 to 2002, their records get a lot thinner.

21 Is this another 484 sample?

22 A. It looks to be.

23 Q. From March of 2002?

24 A. Yes.

25 Q. And the -- for Digitek?

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1 A. Product description; yes, it is.

2 Q. Is there a Lab Conclusion in the center of  
3 the page?

4 A. It meets USP's uniformity of dosage unit  
5 specifications, but it says nothing about dissolution.

6 Q. Well, why don't you go to the very last test  
7 on the page?

8 A. There it is.

9 Q. What it does it say about dissolution?

10 A. There it is. Meets dissolution on -- I  
11 didn't read that far.

12 Q. You don't have any evidence that any of these  
13 tablets from that batch were out of spec; do you?

14 A. No, sir.

15 Q. Are you aware that at least this testing  
16 exceeds the recall parameter dates?

17 A. Well, this is -- is that based on this date,  
18 Matt, '02?

19 Q. Well, do you know when the recalled batches  
20 were first manufactured?

21 A. I don't know that date, to be honest with  
22 you.

23 Q. All right. Let's go to Exhibit 32, please.  
24 Is this another FDA Form 484 sample?

25 A. Yes, sir.

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1 Q. Sample 157504?

2 A. Yes, sir.

3 Q. For Digitek?

4 A. Yes, sir.

5 Q. Center of the page, what was the Lab  
6 Conclusion?

7 A. USP uniformity of dosage units. It looks  
8 like it meets. It also meets USP requirements for  
9 dissolution.

10 Q. All right. Exhibit 33, please.  
11 Is this another FDA 484 Digitek sample?

12 A. Yes, it is.

13 Q. Sample 178890?

14 A. Correct.

15 Q. Now, in the Lab section, does it say anything  
16 other than "in compliance"?

17 Do you see where I'm talking about?

18 A. Yeah, yeah, right in the middle there, "in  
19 compliance." I don't see any other comment. It says  
20 that in two places.

21 Q. Okay. Would you assume that that's -- that  
22 it passed both content uniformity and dissolution?

23 A. I would, simply because this is the same  
24 laboratory that did the prior, and it uses the "in  
25 compliance," and it does note that it meets.

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1 Q. Okay.

2 A. Even though it's absent here.

3 Q. All right.

4 A. Okay?

5 Q. So look at Exhibit 34, please.

6 Is that another FDA Form 484 sample report?

7 A. 178891, yes, it is.

8 Q. And -- for Digitek?

9 A. Correct.

10 Q. And halfway down the page, does it indicate  
11 in two different places that the product was in  
12 compliance?

13 A. That's correct.

14 Q. Now, have you read anything in any of the  
15 material that you have seen to indicate to you who UDL  
16 was?

17 A. I have to admit that I cannot remember UDL.

18 Q. All right.

19 A. To be perfectly honest, I think I've asked  
20 the question. I just do not remember the answer.

21 Q. From all the material that you reviewed from  
22 Actavis, did Actavis always package its product in  
23 bottles?

24 A. Everything I looked at went into bottles,  
25 yes, sir.

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1 Q. All right. You know the manufacturing of --  
2 and packaging of pharmaceuticals, so at some point  
3 what would -- what assumption would you make about how  
4 Digitek got into blister packs?

5 A. They would have had to have gone with a third  
6 party contractor to do that, if they didn't have the  
7 capability themselves.

8 Q. Okay. I want you to assume that that  
9 third-party contractor is UDL. Okay?

10 A. I got it.

11 Q. Did Novartis make any product in blister  
12 packs?

13 A. We were a European-based company, Matt. Every  
14 product was offered in blisters.

15 Q. Okay. What did Novartis do --

16 (A discussion is held off the record.)

17 A. Every product we made was made in blisters.  
18 We distributed in Europe.

19 Q. What did Novartis do to make sure that  
20 tablets would fit into blisters?

21 MR. MILLER: Object to form.

22 A. We would -- we would design the blisters such  
23 that it would fit within a normal range. What that  
24 means, Matt, was: We didn't custom-make blister  
25 tools. We made sure that our tablets were made to

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1 engage, that would accommodate blister tooling  
2 downstream.

3 Q. Well, what would happen if by accident,  
4 Novartis made some double-thick tablets? Would they  
5 fit into your blisters?

6 A. This would be more of an opinion, I think,  
7 for me. I would think based on what I've seen in the  
8 past, some would, some wouldn't. I'm not trying to be  
9 evasive here.

10 Q. In pharmaceutical packaging, you want the  
11 blister to be relatively tight to the tablet; don't  
12 you?

13 And I'll give you two reasons why. Do you  
14 agree with me it should be tight to the tablet,  
15 relatively speaking?

16 MS. CARTER: Object to form.

17 A. In general I agree with you, Matt. I'm  
18 trying to think -- from my experience, I'm trying to  
19 picture some of it.

20 Q. Well, you don't want a lot of space --

21 A. No.

22 Q. -- because the tablet could bounce around and  
23 break; right?

24 A. We both agree to that. It's not going to  
25 rattle like a kid's toy. Okay?

1 Q. And if you use too much packaging, you are  
2 kind of wasting resources; aren't you?

3 A. Precisely.

4 Q. All right.

5 A. We are in agreement there.

6 Q. All right. Do you know anything about what  
7 UDL did to check tablet thickness of Digitek before it  
8 put it in blister packs?

9 A. No, sir.

10 Q. Okay. Could you look in the stack for  
11 Exhibit 35? It's right there.

12 A. Sure. It's right here.

13 Q. All right. Look at the first page. First of  
14 all, is this on Celsis Analytical Services letterhead?

15 A. Yes, Matt, that's what it says.

16 Q. Do you know who Celsis Analytical Service is?

17 A. I would just assume is a third-party  
18 analytical laboratory. That's all I can say. I have  
19 not heard of them myself.

20 Q. In the center, do you see the names of the  
21 three samples?

22 A. Digitek, yes, sir.

23 Q. Three different batches?

24 A. Yes, sir.

25 Q. And at the very bottom, the date is January

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1 29th, 2007?

2 A. Yes, sir.

3 Q. I want you to flip back to Bates Page  
4 UDL011685. I skipped a few zeros. It's not very far  
5 back.

6 A. Yeah. Got it.

7 Q. Do you see that? Does it appear to you that  
8 this is the certificate of analysis for this product  
9 by Actavis?

10 A. That's what it says; yes, sir.

11 Q. All right. And then if you flip back to --  
12 further, do you see that Celsis did some independent  
13 testing of this?

14 A. Yes, sir.

15 MR. MILLER: Now, when you say flip back a  
16 little bit further, do you have a specific page?

17 MR. MORIARTY: There's lots of pages, Pete.

18 Q. I would start at UDL11687.

19 A. Yes, sir.

20 Q. And go back. All right?

21 Does it appear to you from 11687 that this  
22 product passed the tests to which Celsis submitted it?

23 I'm sorry. That was a bad question.

24 From Page 11687, does it appear to you  
25 that -- that the product passed the tests to which



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1 Celsis subjected it?

2 A. Based on these numbers, yes, Matt, it did --

3 Q. All right.

4 A. -- pass.

5 Q. Now let's go back to 11717.

6 A. Okay.

7 Q. Is that the certificate of analysis for a  
8 different batch than we just discussed?

9 A. Sorry, Matt. I went to the wrong page. Can  
10 we have that page number again, Matt?

11 MR. MILLER: 11717.

12 (A discussion is held off the record.)

13 Q. 11685. It's Batch 61100.

14 The one I'm now asking you about at 11717 is  
15 Batch 61097. Okay?

16 A. I got you.

17 Q. So we're up to a different batch; correct?

18 A. I got it now, yes, sir.

19 Q. All right. And if you go two pages more to  
20 11719, does it appear to you that the product passed  
21 the tests to which Celsis subjected it?

22 A. Yes, it does.

23 Q. Let's go all the way back to 11746.

24 A. Okay.

25 Q. Is this the Actavis certificate of analysis

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1 for yet a third batch, 60992A?

2 A. Yes, it is, Matt.

3 Q. And if you go two more pages, does it appear  
4 that the product passed all the tests to which Celsis  
5 subjected it?

6 A. Based on the information here, it met every  
7 requirement.

8 Q. Have you seen any evidence in any material  
9 that you reviewed to indicate that any of these three  
10 batches had out-of-specification testing by anyone?

11 A. These three batches, no Matt. I do not.

12 Q. Let's go to Exhibit 69. Is 69 in the stack?

13 (A discussion is held off the record.)

14 A. 69, got it.

15 Q. All right. Is this a UDL Lab document?

16 A. Yes, it is.

17 Q. And if you look a little bit way down, this  
18 is regarding Actavis Batch 80111A; correct?

19 A. Yes, it is.

20 Q. And if you go to the -- about the middle.  
21 It's UDL7655.

22 A. Yes, sir.

23 Q. Did they measure Digitek tablets in two  
24 dimensions?

25 A. Yes, they did.

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1 Q. Were any of them out of spec?

2 A. I don't recall the spec off the top. Is it  
3 written here? I have to go back and look.

4 Q. It's at the very bottom.

5 A. There it is, I see it.

6 Q. Actually, that's not correct. That may be  
7 the range they found.

8 A. But just for our both's sake, I'll look at  
9 the batch record. Okay?

10 Q. Sure.

11 A. Is that okay?

12 Q. Oh, it's fine. Oh, yeah. If you think it's  
13 in there.

14 A. It's in the compression sheets.

15 (A discussion is held off the record.)

16 Q. Okay. The thickness range for 250 micrograms  
17 is 2.7 to 3.7 millimeters.

18 A. 2.7 to 3.7? So based on that, these fall  
19 well within mid range. Okay?

20 Q. All right.

21 A. And just for clarity, Matt, what I was --  
22 this was -- I just put down a bunch of numbers because  
23 I have trouble remembering specifications. I just  
24 wrote them down on here. Okay? It's no big --

25 Q. Sure.

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1 A. And I didn't have that either, just to be  
2 clear.

3 Q. Okay. Let's go to Exhibit 70, which I did  
4 not mark the other day. Here it is.

5 Is this another UDL Laboratories sheet?

6 A. Yes, it is.

7 Q. Regarding Digitek Batch 71034A?

8 A. Yes, it is.

9 Q. And if you go to a similar spot in this  
10 document, it's the last one, do you see the product  
11 dimension records?

12 A. Right.

13 Q. And this is for another 250 microgram batch?

14 A. I know all fall well within the mid range.

15 Q. All within spec?

16 A. All within spec, yes.

17 Q. Let's go to Exhibit 71. Here you go.

18 A. Thanks.

19 Q. And is this a UDL Laboratories sheet?

20 A. Yes, it is.

21 Q. Regarding Actavis Batch 71004A?

22 A. Yes, it is.

23 Q. And this is a 125-microgram lot; correct?

24 A. Correct.

25 Q. And if you assume that the thickness specs

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1 for that product are two to three millimeters, did all  
2 these pass?

3 A. You pulled that right off the batch record,  
4 Matt?

5 Q. I guess you'll just have to trust me.

6 A. I'm good.

7 Q. It's in the ANDA.

8 A. And it's also right here, too.

9 Q. So --

10 A. The answer is -- the exhibit here shows that  
11 this result of thickness falls within the mid range of  
12 their specification thickness.

13 Q. Okay. Let's go to Exhibit 72.

14 Is this another UDL document?

15 A. Yes, it is.

16 Q. Regarding Batch 70175A?

17 A. Right.

18 Q. Please go to the same place. This is a 250  
19 microgram batch.

20 A. Got it.

21 Q. Did all the 20 tablets that they measured  
22 meet the specs?

23 A. The specs being 2.7 millimeters to 3.7  
24 millimeters; this batch falls right in the middle of  
25 the range.

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1 Q. Okay. Let's go to Exhibit 73.

2 Have you ever seen this document before?

3 A. No, sir.

4 Q. Had you ever seen any of those UDL documents  
5 I just showed you?

6 A. No, Matt, I did not.

7 Q. Does this say, "UDL Internal Investigation  
8 Record"?

9 A. It sure does; yes, sir.

10 Q. Do you see that this was in -- let me find  
11 the date. On the last page, May of 2008.

12 A. Right.

13 Q. And can you tell from the first page of  
14 the -- this, that this investigation was done because  
15 there was a recall going on?

16 A. Just give me a minute, Matt.

17 Okay. "Class 1 drug recall nationwide," got  
18 it. "Is being recalled."

19 (A discussion is held off the record.)

20 A. Product recall is obvious based on this  
21 statement, yes, sir.

22 Q. And UDL investigated -- at the third page,  
23 you can see a complaint history with this product. Do  
24 you see that?

25 A. Just give me a sec.

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1 Q. Well, I'll tell you what.

2 MR. MORIARTY: Let me withdraw that question.

3 Q. Let's go to the second page. Do you see that  
4 under "Investigation Summary," they have a section on  
5 receiving inspection records?

6 A. Yes.

7 MR. MILLER: Wait a minute. I'm not with you.

8 MR. MORIARTY: Second page, top.

9 MR. MILLER: Okay. Got it.

10 Q. And then there's a section called "Batch  
11 Record Documentation"? Do you see that?

12 A. Yes, I see it, Matt.

13 Q. Is there a section called "Examination of  
14 Retained Samples"?

15 A. Right. The copy starts to get a little fuzzy  
16 down there, but I can see that, yes.

17 Q. And then on the next page at the top,  
18 "Complaint History"? Do you see that?

19 A. Right.

20 Q. Now, if you were going to do -- I'm sorry.  
21 I'm not --

22 On the last page, it says "Stability records  
23 history." Do you see that?

24 A. Yes, I do.

25 Q. If you were going to do an investigation, are

1 these the kind of things that you would look at?

2 A. If I was aware that this was one of the  
3 put-ups that I had that was problematic. I think this  
4 would be a substantive piece of information. It would  
5 certainly give me a sense to -- of the tablet gauge.

6 Q. Okay.

7 A. Because certainly downstream packaging,  
8 especially in something as -- as punitive as a  
9 blister, it's important to know.

10 Q. Okay. And go to the last page. Do you see  
11 they have a "Conclusion"? Just above the signature?

12 A. Right.

13 Q. Do you see that?

14 A. "UDL is continuing a voluntary --"

15 Q. No, no. Above that.

16 A. I'm sorry.

17 Q. It says, "Conclusion." Do you see that?

18 A. Yes.

19 Q. It says, "Records reviewed, retained sample  
20 examination and complaint history for products and  
21 lots in question demonstrate no evidence of unusual  
22 events that could be related to the packaging of  
23 double the thickness tablets in unit dose blisters."

24 Do you see that?

25 A. I see it; yes, sir.



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1 Q. Okay. Let's go to number -- Exhibit 83.

2 Good luck with this one. I want you to take  
3 a minute to look through that.

4 First of all, have you ever seen it before?

5 A. No, sir.

6 Q. All right. I'm going to walk you through  
7 this.

8 A. All right.

9 Q. Do you see that this is on UDL Labs  
10 letterhead?

11 A. Yes.

12 Q. From your own knowledge of the pharmaceutical  
13 industry, would a repackager have an obligation to do  
14 dissolution testing in order to assess whether their  
15 repackaging of the product had any effect on shelf  
16 life or stability?

17 A. That would depend on the product.  
18 Customarily you want to make sure that the environment  
19 in which you package the product doesn't affect it.  
20 In other words, it going to be there in bulk.

21 Q. Okay.

22 A. So in that case, you'd want to do everything  
23 necessary to assure that. Okay?

24 Q. So let's go back to -- let's go back to the  
25 first page, I guess. Is this a transmittal form?

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1 A. Yes, that's what it says.

2 Q. And essentially what it is telling us is that  
3 on January 29th, 2007, UDL shipped Celsis Laboratories  
4 three Digitek samples. Is that right?

5 A. Yes, it is.

6 Q. And if we flip through the remaining pages,  
7 you see that on various other dates, UDL sent RD  
8 Laboratories in Missouri various other Digitek  
9 samples; is that right?

10 A. Right, yes. It looks like these are  
11 stability samples.

12 Q. Okay. So let's go back to the actual Results  
13 sections.

14 Now, I can tell you, Dr. Somma, that I have  
15 read this document and I think there are 33 batches of  
16 Digitek over the years that UDL sent to either Celsis  
17 or RD. Okay? You are welcome to count them if you'd  
18 like, but I just want to go through a few of them.

19 A. Okay.

20 MR. MILLER: What page are you on?

21 Q. Not all 33 of them.

22 MR. MORIARTY: I am on UDL11369.

23 MR. MILLER: Okay.

24 Q. Do you see that this is a stability test  
25 result?

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1 A. Yeah, yes, sir.

2 Q. For, on the right-hand side in the corner,  
3 Actavis Lot 70834A? Upper right-hand corner.

4 A. The other right. 703 -- 70834A, yes, sir.

5 Q. And the initial testing in October of 2007  
6 showed an assay of 97.3 percent; correct?

7 A. Yeah, yes, sir.

8 Q. Are you familiar with this kind of stability  
9 test reporting?

10 A. Yes, sir.

11 Q. Would you assume that the initial October of  
12 2007 was what Actavis tested at the time of finished  
13 product testing?

14 A. That -- is this a confirmation -- is this  
15 aligned with their results?

16 Q. I don't know. I'm just asking what you know  
17 about this. If you don't know, I don't want you to  
18 guess.

19 A. That I couldn't answer, then.

20 Q. Okay.

21 A. If they are both working with the same spec  
22 and the same method and it's been transferred, it  
23 should be right within -- right within experimental  
24 error.

25 Q. Okay. So let's go to the next page, UDL

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1 11370, and in the upper right, this is Batch 70386A.

2 A. Right.

3 Q. Correct?

4 A. Uh-huh.

5 Q. And on this page in May of '07, the assay  
6 result was 97.1. Is that correct?

7 A. 97.1, yes, sir.

8 Q. Percent?

9 A. Percent. Okay.

10 Q. And if you look at the bottom on the left, it  
11 says the manufacturing date of May of '07.

12 Do you see that?

13 A. Uh-huh.

14 Q. That's yes?

15 A. Yes, sir. And I see --

16 Q. And a manufacturer's assay of 97.1 percent;  
17 correct?

18 A. Right.

19 Q. Is it reasonable to conclude, therefore, that  
20 this top part where the initial -- it lists the  
21 initial assay, is the original Actavis assay when it  
22 made the batch?

23 MR. MILLER: Object to form.

24 A. In my experience, what happens is your Time  
25 Zero is usually not repeated. That would be -- it

1 could have been data that was there, and they just  
2 used that as Time Zero.

3 Q. Okay.

4 A. Okay? So Matt, that would be why they're the  
5 same.

6 Q. Right.

7 A. But, again, I wouldn't know that for a fact.  
8 That's my experience.

9 Q. When UDL gets the certificate of analysis  
10 from Actavis, it has the assay results with it?

11 A. Right. So that would be Time Zero.

12 Q. Okay. So the next section says, "Shelf life  
13 testing, three months, assay result 97.2."

14 Do you see that?

15 A. Yes, sir.

16 Q. And that's within the specifications. Is  
17 that right?

18 A. It sure is, yes, sir.

19 Q. Now, if we flip back through every one of  
20 these pages, is the format essentially the same, where  
21 the Actavis lot is in the upper right-hand corner?

22 A. Yes.

23 Q. And the assay results to which either Celsius  
24 or RD tested the Digitek are contained in these grid  
25 charts. Is that right?

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1 A. Yes, sir.

2 Q. All right. I would like you to flip through  
3 all those pages and tell me if there was ever a  
4 stability failure of Digitek when tested at the  
5 request of UDL?

6 MS. CARTER: Object to the form.

7 A. On several occasions, Matt, these are  
8 dissolution results at the S2 level. My experience,  
9 those would precipitate an investigation. But did  
10 they fail? No.

11 I'm looking at specifically Page 11373. It  
12 notes it as an S2. That just means that you increase  
13 the sampling.

14 Q. Okay.

15 A. But, again, not knowing that part of it, that  
16 usually precipitates an evaluation. It is not per se  
17 a failure. Okay?

18 MR. MILLER: If we're going to leave this  
19 document, it might be a good time for lunch.

20 MR. MORIARTY: Let me finish up.

21 A. When I'm done --

22 MR. MORIARTY: Let me finish up my section. I  
23 have another exhibit. And maybe one or two more  
24 questions.

25 MR. MILLER: Okay.

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1 (A discussion is held off the record.)

2 Q. Do you see any stability failures?

3 A. Other than those comments I made about S2,  
4 there are no stability failures in here.

5 Q. And stability testing is doing assay of the  
6 product over time; is it not?

7 A. Yes, it is.

8 Q. Okay. I want to hand you what I had marked  
9 as Exhibit 84. This is another UDL document.

10 Have you ever seen this before?

11 A. No, sir.

12 Q. Had you ever seen all that stability testing  
13 before?

14 A. This? I never looked at that.

15 Q. All right. This is a memo, is it not, dated  
16 May 5th, 2008?

17 A. That's correct.

18 Q. And if you go to the second paragraph, third  
19 line down, it says, "UDL tests the product for  
20 potential and dissolution. In reviewing the data for  
21 both strengths of Digitek, the potency showed no  
22 apparent trending."

23 Let me stop there. Have you seen anything in  
24 the documents that I have given you so far to indicate  
25 there was any adverse trending to the Digitek data?

1 MR. MILLER: Object to form.

2 A. To answer it accurately, Matt, I would have  
3 to look at all of that information together. My sense  
4 is: Based on those numbers I looked at, they were all  
5 within the mid to high 90s.

6 Q. All right. Do you have any reason to  
7 disagree with the person from UDL --

8 A. Absolutely not.

9 Q. -- who did this?

10 A. Absolutely not.

11 Q. The last sentence says, "Overall both  
12 strengths of this product have shown no remarkable  
13 stability data through the assigned expiration date in  
14 the unit dose package."

15 Do you have any reason to disagree with that?

16 A. Not at all.

17 Q. Now, I've shown you -- We know that Actavis  
18 tested all this and it was within spec when they  
19 tested it. And I've now shown you Quantic batch  
20 record review materials. I've shown you FDA testing  
21 of the product. I've shown you testing done at the  
22 request of UDL; correct?

23 A. Uh-huh; yes, sir.

24 Q. We've spent about an hour just going over  
25 testing of Digitek; right?



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1 A. Yes, sir.

2 Q. Do you have any evidence, any documents, any  
3 test results to indicate that there was Digitek in the  
4 hands of consumers that was outside its labeled  
5 specifications?

6 MR. MILLER: Object to form.

7 A. Nothing other than the Batch 70924A.

8 Q. All right. Do you have any evidence that any  
9 tablets from --

10 MR. MORIARTY: Let me withdraw that.

11 Q. Do you have any evidence that  
12 out-of-specification tablets from Batch 70924A made it  
13 to the hands of consumers?

14 A. The batch was tested according to the C of A.  
15 According to the certificate of analysis, the batch  
16 met requirements. So the answer is: That batch met  
17 requirements, yes.

18 Q. Okay. Well, that batch was -- the  
19 investigation of that batch was for double-thick  
20 tablets; correct?

21 A. That's correct, sir.

22 Q. Not for tablets of normal size with varying  
23 potency; right?

24 A. That's correct.

25 Q. Do you have any evidence from any document

1 you have seen, any deposition testimony you have seen,  
2 that an oversized tablet from Batch 70924A made it to  
3 the hands of a consumer?

4 A. I would have to say no.

5 Q. All right.

6 MR. MORIARTY: That's a good time for a lunch  
7 break.

8 THE VIDEOGRAPHER: Please stand by. We are  
9 going off the record. The time is 12:29 p.m. This  
10 is the end of Tape Number 3.

11 (The luncheon recess is taken.)  
12

13 CONTINUED DIRECT EXAMINATION BY MR. MORIARTY:

14 THE VIDEOGRAPHER: We are back on the record.  
15 The time is 1:38 p.m. This is the beginning of  
16 Tape Number 4.

17 Q. Dr. Somma, have you ever consulted with my  
18 client, Actavis?

19 A. No, sir.

20 Q. Have you ever consulted with Mylan?

21 A. No, sir.

22 Q. Now, earlier I went through all that 484  
23 testing from the FDA, and by my count, seven of the  
24 batches that they tested are what wound up being the  
25 recall batches. Okay? Which is about 4.6 percent.

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1 A. Yes, sir.

2 Q. Do you have an opinion as to whether that is  
3 a statistically significant number?

4 MR. MILLER: Object to form.

5 A. Is that statistically significant, the  
6 batches that were recalled; correct, Matt?

7 Q. Yes. Seven out of 152?

8 A. Whether it is statistically significant or  
9 not, it's hard for me to say. Is it representative of  
10 what was made? I don't think so.

11 Q. Why isn't it representative of what was made?

12 A. Well, to get back to what I had said before,  
13 bottom line on all of this was: I have not seen an  
14 investigation which resolved the root cause of the  
15 things I observed in these other batches, such as some  
16 of the blend uniformity issues, things like that.

17 Other than that, based on the merit and the  
18 information in front of me, those are -- those batches  
19 passed, yes. And they were confirmed by two -- two  
20 sources.

21 Q. And by my count Celsis, one way or another,  
22 tested 11 out of 152 batches, which is about 7.2  
23 percent. Is that statistically significant?

24 MR. MILLER: Object to form.

25 A. I would say the same answer again, you know.

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1 Q. And if you add those two together and take  
2 out any duplicates that may have been tested by both  
3 Celsis and FDA, it's 16 out of the 152, which is ten  
4 and a half percent.

5 Is that statistically significant?

6 MR. MILLER: Object to form.

7 A. It's hard for me to answer that question yes  
8 or no.

9 Q. Do you think that FDA's testing seven out of  
10 152 recall batches provides a high degree of  
11 assurance --

12 A. No more than any -- I'm sorry.

13 Q. -- that those seven batches at least met  
14 their specifications for identity, purity, and  
15 potency?

16 MR. MILLER: Object to form. .

17 A. No. Again, those seven batches -- no more  
18 does that testing or Celsis's testing represent the  
19 fact that all of the batches in question don't have  
20 some problem. It meant that that sample using those  
21 specifications at that time met requirements.

22 It gets back to the point I made earlier:  
23 That this is a totality, it's a continuum, it's not  
24 just a speck in the results.

25 Q. All right. Well, have you seen any FDA

1 documents that someone said that there was a total  
2 failure of the quality system?

3 A. I believe in this Exhibit 26, Matt, there is  
4 a statement. I don't know if it says "total failure."

5 (A discussion is held off the record.)

6 A. I'm referring to Exhibit Number 26 in  
7 response to Matt's question. That was the only --  
8 this is the point that I had seen. That was a comment  
9 from the FDA, as far as their quality system goes.

10 Q. Well, if somebody else were to have said  
11 there was a total failure of Quality, do you think  
12 that's an overstatement, given the fact that UDL and  
13 Celsis have independently confirmed that at least  
14 those batches, when tested, met the specifications?

15 MR. MILLER: Object to form.

16 A. Again, my -- my --

17 Q. That one's a yes or no. Do you think it's an  
18 overstatement?

19 A. No.

20 Q. Explain your answer.

21 A. I think that statement is based upon what I  
22 say the whole picture, not just a series of  
23 specifications -- a series of batch results. This  
24 speaks to things in total, and that gets back to my  
25 comments about investigations and analysis of other

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1 mitigating circumstances.

2 Q. Well, you know there was an all-products  
3 recall a month or two after the Digitek recall;  
4 correct? Do you know that?

5 A. All products were recalled, yes, sir.

6 Q. And do you know those were not to the  
7 consumer level?

8 A. That I didn't know, sir.

9 Q. Did you think when you got here today that  
10 all the products were recalled to the consumer level?

11 A. No, no, sir.

12 Q. You didn't give it any thought one way or  
13 another?

14 MR. MILLER: Object to form.

15 A. Not that it was pertinent to what I was  
16 looking at in this particular case.

17 Q. Okay. Did the FDA ever make a specific  
18 finding in any document that you've ever seen that  
19 Digitek was adulterated?

20 MR. MILLER: Object to form.

21 A. Well, getting back to the question -- to the  
22 definition of "adulterated," I would say, based on the  
23 broad-based comment in Citation 1, that based on their  
24 definition, those -- Digitek would be adulterated by  
25 their definition.

1 Q. That's not what I asked you.

2 A. Okay. Then please ask again.

3 Q. Did they make an explicit statement anywhere  
4 that Digitek was adulterated?

5 A. And, again, I just think if it is  
6 noncompliance, by their definition it is adulterated.

7 Q. I want you to find me a statement in any of  
8 the paper in front of you that says -- from the FDA,  
9 that Digitek was adulterated. Explicit statement.  
10 Not you inferring or --

11 A. Understood.

12 MR. MILLER: I'm going to object to form.

13 A. I'm looking at this Exhibit 91, Matt. And to  
14 answer your question point on about they say it's  
15 adulterated, this is -- in this particular statement  
16 here, it doesn't come right out and say that,  
17 "adulterated," it does not say that. Okay?

18 Q. Okay. Have you seen any FDA statement at all  
19 specifically finding that there was  
20 out-of-specification Digitek in the hands of a  
21 consumer between 2004 and 2008?

22 A. I think the field action that recalled the  
23 batches speak to that point, or not? Did I  
24 misunderstand that? By recalling of batches, isn't  
25 that what that means, that they thought that that

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1 happened?

2 Q. Sir, I thought you told me a number of hours  
3 ago that you could recall batches of pharmaceutical  
4 product for a number of different reasons; correct?

5 A. Yes, you can, right.

6 Q. And defective, actual out-of-spec tablets in  
7 the hands of consumers may or not be the case; right?

8 MR. MILLER: Object to form.

9 A. May or may not be the case, correct.

10 Q. FDA could recall pharmaceutical products  
11 because the label was on crooked?

12 A. That's correct.

13 Q. Or they didn't like the way the plumbing in  
14 the plant was; correct?

15 A. That's correct.

16 Q. All right. So what I'm asking you: In all  
17 the ocean of material that you have reviewed, do you  
18 find any explicit statement by the FDA that there was  
19 out-of-specification Digitek in the hands of consumers  
20 between 2004 and the spring of 2008?

21 MR. MILLER: Object.

22 A. And, again, to that, Matt, what I would have  
23 to answer is that they found noncompliance to  
24 procedures, they found information about blend  
25 uniformity. Nothing that specifically speaks to



1 defective tablets being distributed.

2 Q. And just because there were some blend  
3 uniformity out of specs that were the subject of an  
4 FDA 483 because of the investigation technique, does  
5 not mean there was out-of-spec Digitek in the hands of  
6 consumers; does there?

7 MR. MILLER: Object to form.

8 A. That's hard to say, Matt, because they never  
9 did the investigation as I would have understood it,  
10 to be perfectly honest.

11 Q. All right. But you have all this information  
12 available, and you haven't seen any evidence of  
13 out-of-spec Digitek in the hands of a consumer; have  
14 you?

15 MR. MILLER: Object to form.

16 Q. You told me that before lunch?

17 A. Right, right.

18 Q. Every piece of evidence you have seen  
19 regarding testing of Digitek has been within  
20 compliance?

21 A. Testing -- Absolutely.

22 Q. Do you have any idea of what percentage of  
23 pharmacies in the United States still count out  
24 tablets by hand?

25 A. Oh, I practiced pharmacy for awhile and every

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1 one that I worked in, we counted by hand. So my guess  
2 would be -- the big box stores, whatever percentage  
3 they are, counting automatically. That would be my  
4 guess.

5 Q. How does a big box store go from a  
6 thousand-count bottle of tablets on a shelf into a  
7 vial with an automatic counter? Or are you talking  
8 about mail order pharmacies?

9 A. No, sir. They would fill a tablet counter up  
10 with a thousand tablets, type in the number they  
11 need --

12 (A discussion is held off the record.)

13 A. Set the counter and then the machine counts  
14 the tablets.

15 Q. And what percentage of pharmacies in the  
16 United States use automated versus hand counting?

17 MR. MILLER: Object to form.

18 A. That would be a complete guess on my part.  
19 It's got to be a small percentage.

20 Q. You mean it's a small percentage that use  
21 automatic?

22 A. Yes, sir.

23 Q. So if tablets were out of specification by  
24 size, that's what's known in the industry as a visible  
25 defect; is it not?

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1 A. Visible -- visual defect, yes.

2 Q. And it is at least theoretically possible  
3 that the pharmacy level, when tablets are hand  
4 counted, is a point at which tablets that were extra  
5 thick could be detected; correct?

6 MR. MILLER: Object to form.

7 A. I would have to agree to an extent; but  
8 saying, based on my pharmacist's background, I was not  
9 looking for thick tablets. My objective was to make  
10 sure that the prescription was filled adequately, that  
11 the all -- that all of the paperwork was filled out,  
12 and that the clinical profile of the patient was done.  
13 And a lot of cases nowadays, it is done by a  
14 technician.

15 Q. All right. Well, some human being was used to  
16 counting out tablets; right?

17 A. Right.

18 Q. Have you ever actually seen and touched a  
19 Digitek tablet?

20 A. No, sir.

21 Q. I'm sorry?

22 A. No, sir.

23 Q. If a tablet that was supposed to be between  
24 two and three millimeters was double thick, so it was  
25 somewhere between four and six, is that a visual

1 defect that a reasonable technician or pharmacist  
2 would be able to detect when counting out a  
3 prescription of 30 to 100 tablets?

4 MR. MILLER: Object to form.

5 A. I don't think so, because when you put these  
6 into a counting tray, they all lay down flat. How  
7 would you able to determine -- determining height of  
8 tablets, Matt, across a bed of tablets is very  
9 difficult. You would actually have -- it would have  
10 to be on your side.

11 So my guess is that that's pretty tough to  
12 do, just from having done it myself.

13 Q. Well, if there was one double-thick tablet in  
14 there, it would be sticking out like a skyscraper,  
15 right?

16 A. Like a skyscraper, yeah. That you -- Unless  
17 you -- in that case, if it was that thick. But  
18 again, three millimeters, double, six; my guess is you  
19 probably would see that.

20 Q. All right.

21 A. I'm not saying I would see that.

22 Q. Did you say earlier you had not reviewed any  
23 adverse event reporting data in this case?

24 A. That's correct.

25 Q. Do you have any opinions about adverse events

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1 with Digitek?

2 A. No, sir.

3 Q. Did you ask Mr. Miller or Ms. Carter how many  
4 of the plaintiffs in this litigation had had their  
5 tablets weighed or measured?

6 A. No, sir. I looked for the information in the  
7 information provided.

8 Q. All right. You didn't see any plaintiffs who  
9 had double-thick tablets; did you? Or even  
10 extra-thick tablets?

11 A. I didn't see -- I didn't see any information  
12 that said that at all. Okay?

13 Q. In a piece of litigation like this, and I  
14 know you are new to this process, but if they had  
15 evidence that their clients had extra-thick tablets  
16 that were outside the specifications, do you think  
17 it's the kind of material that they would give you to  
18 review?

19 A. I would think so.

20 Q. Have you seen any reliable reports that an  
21 extra-thick tablet was detected by a pharmacist in  
22 2005, 2006, 2007 or 2008?

23 A. We had discussed that before, as I recall. I  
24 thought I did, but I was not able to recover it.

25 Q. Well, I said reliable report by a pharmacist

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1 of an extra-thick tablet in 2005, '06, '07 or '08.

2 MR. MILLER: I'll object to form.

3 A. We just -- I'm going to look again.

4 I read it, Matt, and I cannot find it.

5 Q. You believe you have a report, a reliable  
6 report from a pharmacist that indicates that they  
7 found a double-thick tablet in the years I just  
8 mentioned, '05 through '08?

9 A. As I recall, the report was about a  
10 pharmacist finding a tablet, and the year I believe  
11 was '04.

12 Q. Is that the one -- Well, wait a minute. I  
13 said '05 through '08 three times.

14 Do you have such a report?

15 A. That's -- as I'm trying to think through it,  
16 I cannot locate it here.

17 Q. Do you think there is one? Now, we discussed  
18 one this morning about this nursing home, and you told  
19 me that it wouldn't be reliable given everything I  
20 asked you about it.

21 A. Right, right.

22 Q. I'm asking about a different question. A  
23 reliable report from a pharmacist in 2005, '06, '07 or  
24 '08 indicating that they had an extra-thick Digitek  
25 tablet.

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1 MR. MILLER: Object to form.

2 A. Nothing that I can produce, no, sir.

3 Q. Can you look for Exhibit 21 in the stack,  
4 also known as Plaintiff's Exhibit 128?

5 Have you seen this document before?

6 A. Yes, sir.

7 Q. This is the extra-thick tablet investigation.  
8 The investigation was conducted in 2004; correct?

9 A. Yes, sir.

10 Q. And you see in here that somehow Actavis or  
11 Amide at the time was able to figure out that that  
12 came from a batch made in 2003; correct?

13 A. Yes, sir.

14 Q. Did the company alert the FDA to this event  
15 through what's known as a field alert report?

16 A. I don't know, Matt.

17 Q. Okay. I'd like you to look at Exhibit 20.  
18 It should be in that stack.

19 Have you seen that document before?

20 A. I believe so.

21 Q. It's an EIR from 2004. Is that correct?

22 A. Yes, sir.

23 Q. I'd like you to go to Page 4, please.

24 A. Uh-huh.

25 Q. Now, first of all, in order to be operating

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1 under a consent decree -- decree, do you have to be in  
2 compliance with cGMPs?

3 A. Absolutely. You have to be in compliance  
4 with cPMG's if you make a product that's subject to  
5 human consumption.

6 Q. All right. So in the first paragraph, under  
7 "History of Business Operations" --

8 A. Right.

9 Q. -- four lines down, there is a sentence that  
10 says, "The consent decree was lifted in 2001 following  
11 successful demonstration of sustained cGMP  
12 compliance."

13 Do you see that?

14 A. Yes, sir.

15 Q. Do you have any reason to disagree with the  
16 FDA about that?

17 A. No, sir.

18 Q. Let's go to Page 6. Under the Field Alert  
19 Reporting section.

20 A. Uh-huh.

21 Q. It says, "A final field alert report for NDA  
22 40-282, digoxin tablets .25 milligrams was filed  
23 during the reporting period."

24 Do you see that?

25 A. Yes, sir.



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1 Q. And if you read on, what they're referring to  
2 is the investigation contained in Exhibit 21. Is that  
3 right?

4 MR. MILLER: Take your time and read it.

5 A. Got it. Okay.

6 Q. Am I right?

7 A. Yes, sir.

8 Q. So go down ten lines from the top of that  
9 paragraph. It says, "No additional complaints or  
10 reports of thick tablets have been received for this  
11 high volume product."

12 Do you have any reason to disagree with the  
13 FDA about that?

14 A. I don't see why, no.

15 Q. Okay. "The event was considered an isolated  
16 incident and corrective actions were put in place to  
17 prevent its reoccurrence."

18 Do you agree with that?

19 A. Uh-huh, yes, sir.

20 Q. Now let's go to Page 9. In the section  
21 called Complaints, the second paragraph.

22 It says, "A larger number of complaints was  
23 also noted for digoxin tablets; however, it is the  
24 highest volume product according to the list of  
25 batches produced per year."

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1 Do you have any reason to disagree with that?

2 A. No, sir.

3 Q. "There were also no trends observed for the  
4 types of complaints."

5 Any reason to disagree with that?

6 A. No, not at all.

7 Q. Was FDA satisfied with the investigation of  
8 Exhibit -- that's embodied in Exhibit 21?

9 MR. MILLER: Object to form.

10 A. Let me just change my glasses.

11 Based on the data I have in front of me,  
12 they're satisfied, yeah.

13 Q. There was never a 483 or a warning letter  
14 about that incident or its investigation; is that  
15 correct?

16 A. I'm just making sure this 483 is not it.  
17 This one, I'm just looking at one from May back. No.  
18 The answer is: There is nothing as a result of this.

19 Q. All right. Now, before the lunch break you  
20 told me you didn't have any evidence of out-of-spec  
21 tablets getting in the hands of consumers. I want to  
22 talk a little bit more about that. Okay?

23 A. Yes, sir.

24 Q. Do you have an opinion --

25 MR. MORIARTY: Withdraw that.

1 Q. Let me start over. Let's just talk about the  
2 recalled batches, and let's assume there were 688.2  
3 million tablets in that grouping; okay?

4 A. Okay.

5 Q. Do you have an opinion to a probability as to  
6 how many of them were outside their specifications?

7 A. I think when we discussed, we said that none  
8 of those that were released were out of specification,  
9 as I recall. The probability of -- of them being out  
10 of specification, which means tablets which were not  
11 tested, in other words a batch is made of two million,  
12 you test 100. So the probability of one that is not  
13 tested sneaking out is within the realm of  
14 possibility, yes.

15 Q. Okay. Do you know that -- in your work at  
16 Novartis, I assume you talked to scientists, people  
17 all the time; right?

18 A. Right, okay.

19 Q. You are familiar with the terms "probability"  
20 and "possibility;" right?

21 A. Right, everything is possible, correct.

22 Q. And probability is more likely than not;  
23 correct?

24 A. It's probable, it's likely.

25 Q. Okay. So what I'm trying to find out, and my

1 clients are entitled to know, is whether you have an  
2 opinion to a reasonable probability as to how many of  
3 the 688 million tablets among the recalled group were  
4 outside their specifications? Do you have such an  
5 opinion?

6 A. I have an opinion based on a review of the  
7 information I've seen.

8 Q. Is it an opinion to a probability?

9 A. To a probability? Based on the information  
10 I've seen, and the lack of investigation and rigor  
11 that addressed the problem, that it is highly probable  
12 that something was distributed and not caught; caught  
13 in the testing sense.

14 Q. Okay. How many of the 688 million tablets in  
15 the recall group were likely outside their  
16 specifications?

17 A. That's very difficult to say.

18 Q. You have no opinion to a probability as to a  
19 number?

20 A. I think it's hard to put a number on it, to  
21 be perfectly honest, because what we are talking about  
22 in this particular case, my opinion is they did not do  
23 a rigorous enough evaluation of things to assess that  
24 they even had a problem. In that case, the  
25 probability could be as high as 100 percent and could

1 be as low as zero. Without the analysis and the  
2 information to make that assessment, Matt, I can't say  
3 for sure.

4 Q. All right. So you would be speculating to  
5 put a number; right?

6 A. I think that would be a safe bet, yeah.

7 Q. Okay. So -- And I can keep -- I'm going to  
8 keep asking you these questions, because I need to  
9 know, not because I'm trying to be a pain in the neck.

10 But if a tablet was outside its  
11 specifications, there are only two possibilities  
12 there; one is it's high outside the specs or low  
13 outside the specs; correct?

14 MR. MILLER: Object to form.

15 A. Correct. Okay.

16 Q. Are there any other possibilities besides --  
17 if they're outside the specs, are there any other  
18 possibilities besides high or low?

19 MR. MILLER: Object to form.

20 Q. Answer me as a scientist.

21 A. As a -- if there were -- they're either  
22 outside the spec, high, or low outside the spec,  
23 correct, correct. There's a range.

24 Q. Okay. All right.

25 Ignore the man outside the curtain for right

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1 now.

2 MR. MILLER: Do not ignore the man outside the  
3 curtain. Disregard that.

4 MR. MORIARTY: Behind the curtain, I should  
5 say.

6 Q. So do you have any opinion to a probability  
7 as to how many of the recalled Digitek tablets were  
8 outside the specifications, low?

9 A. I would have --

10 MR. MILLER: Excuse me. I'm going to object  
11 to the form.

12 Q. On the low side?

13 A. I would -- it's -- again, I'm not trying to  
14 be evasive. It's just difficult to answer that as if  
15 on the high side. The question is -- I can't -- I  
16 can't assign a number to that.

17 Q. All right. My first question was: Did you  
18 have an opinion as to whether they were outside the  
19 specs as all, and we covered that.

20 A. Yes, we did.

21 Q. Now I'm getting into the two possibilities.

22 A. Right.

23 Q. And if you don't have an opinion to a  
24 reasonable probability, that's all you have to tell  
25 me.

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1 A. Okay.

2 Q. So you don't have an opinion to a probability  
3 of how many were outside the specifications on the low  
4 side; correct?

5 A. No, sir.

6 MR. MILLER: Object to form.

7 Q. Do you have an opinion to a reasonable  
8 probability how many were outside the specifications  
9 on the high side?

10 A. No, sir.

11 Q. And it matters how low or how high; correct?

12 MR. MILLER: Object to form.

13 A. With --

14 Q. I'll rephrase my question.

15 If you were doing an investigation for a  
16 pharmaceutical company --

17 A. Right.

18 Q. -- whether it was Novartis or one of your  
19 consulting clients, and they had been releasing  
20 product that was outside the specifications, would you  
21 as a scientist want to know how far outside the specs  
22 they were?

23 MR. MILLER: Object to form.

24 A. Well, I think -- let me make sure I --

25 Q. Yes or no. Would you want to know that?

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1 A. I wouldn't expect them to release anything  
2 outside of spec.

3 Q. That's not what I'm asking. You were called  
4 in as a consultant and somebody says, "We accidentally  
5 made some tablets that were outside the specs."

6 A. Oh, okay.

7 Q. It's a done deal; okay?

8 A. Right.

9 Q. You are called in as the consultant to do an  
10 investigation. Do you as a professional want to know  
11 how far outside the specs they were?

12 A. You have to do an analysis for trend, is it  
13 high, or is it low, yes.

14 Q. So do you have an opinion -- if there were by  
15 chance any tablets outside the specifications low, do  
16 you have any opinion as to how low outside the specs  
17 they were?

18 MR. MILLER: Object to form.

19 Q. To a probability?

20 A. Not until I see the information, I guess.  
21 It's hard to say, you know.

22 Q. Okay. But you haven't seen any such  
23 information about tablets outside the specs at all;  
24 correct?

25 MR. MILLER: Object to form.



1 A. In this particular case, no. They have -- in  
2 other words, I have asked for the information. I  
3 haven't seen any of that information, right.

4 Q. On the other side, do you have any opinion to  
5 a probability as to how far outside the specs high any  
6 Digitek tablets might have been, if there were any?

7 MR. MILLER: Object to form.

8 A. No, for the same reason I couldn't understand  
9 on the low side.

10 MR. MORIARTY: What's the basis for your form  
11 objection? I want the chance to cure it.

12 MR. MILLER: It's vague and misleading.  
13 Perhaps the expert does, but I don't know what  
14 specifications you were asking about.

15 Q. Outside any specification: Weight,  
16 thickness, active pharmaceutical ingredient. Did you  
17 understand my questions?

18 A. Yes.

19 Q. Okay.

20 A. To be real -- I want to-- that's my -- I  
21 understand what you are talking about. It doesn't  
22 matter -- A spec is a spec. I apologize.

23 Am I supposed to have clarified that?

24 Q. No. You and I understood one another  
25 perfectly. Okay.

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1 Now, I assume, Dr. Somma, from reading your  
2 report and listening to what you are saying today that  
3 because of some cGMP violations, you have concerns  
4 about Digitek production. Am I correct about that?

5 MR. MILLER: Object to form.

6 A. There are -- the concerns I have are the --

7 Q. Yes or no?

8 A. Yes.

9 Q. Do you have concerns?

10 A. Yes, I do. Oh, I'm sorry. Yes, I do.

11 Q. And from a regulatory standpoint, when you  
12 are looking from the cGMP standpoint, there are  
13 findings in the FDA -- these FDA documents that lead  
14 you to conclude, and led the FDA to conclude, that  
15 Digitek may have been adulterated. Is that correct?

16 MR. MILLER: Object to form.

17 A. Yes.

18 Q. All right. But as we covered before,  
19 "adulterated" does not necessarily mean that the  
20 tablets were, in fact, outside their manufacturing  
21 specifications. Is that right?

22 MR. MILLER: Object to form.

23 A. "Adulterated" means -- could mean things that  
24 are major-major or minor, yes; not outside the  
25 specifications.

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1 Q. So when we get specifically to Digitek, and  
2 I'll talk about the recall in more detail in a minute;  
3 FDA would have every right to ask Actavis to recall  
4 the Digitek within the expiration date just because  
5 they believed the investigation of 70924 was  
6 substandard. Is that right?

7 MR. MILLER: Object to form.

8 A. That's certainly within their right, yes.

9 Q. Even if there was no proof whatsoever that  
10 actually out-of-spec tablets made it to pharmacies and  
11 consumers. Is that right?

12 MR. MILLER: Object to form.

13 A. Could we go through that one more time, Matt?  
14 I'm not trying to be stupid.

15 THE WITNESS: Can I have that question again,  
16 Mark?

17 MR. MORIARTY: Mark, you are going to have to  
18 read that last one back.

19 (The question is read.)

20 A. Yes.

21 Q. So if I ask you a different way, do you have  
22 an opinion to a reasonable probability how many  
23 Digitek prescriptions were filled which contained as  
24 low as one out-of-specification tablet? Do you have  
25 an opinion to a probability on that subject?

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1 A. That would fall -- that falls back into: Is  
2 it going to be low or is it going to be high. I guess  
3 my opinion is it's likely that something could be  
4 there. As far as a percentage, Matt, no.

5 Q. Now, wait.

6 A. Run it by me again.

7 Q. All along you have told me you have no  
8 opinion to a probability, this is what I'm hearing  
9 from you. Okay?

10 A. Right.

11 Q. Maybe Peter hears it differently.

12 A. Right.

13 Q. I'm hearing you have no opinion to a  
14 probability, a likelihood, that there were defective  
15 tablets in the hands of consumers at all?

16 A. Right.

17 MR. MILLER: Object to form. Misstates  
18 previous testimony.

19 Q. So I'm asking it from a different angle to  
20 make sure I have it all straight.

21 Do you have an opinion to a probability about  
22 how many people received any prescriptions with any  
23 defective, outside-of-specification Digitek tablets in  
24 them?

25 (A discussion is held off the record.)

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1 A. No. I was still thinking about the spec  
2 thing, sorry.

3 Q. If there were tablets outside the  
4 specifications -- Okay? -- and let's just assume for  
5 right now that they were extra thick, and that because  
6 they were extra thick, they were outside the API specs  
7 on the high side. Okay? Let's just make that  
8 assumption for right now.

9 A. Okay.

10 Q. All right? If that were true and they went  
11 out into the marketplace, wouldn't it be likely at  
12 some point that collectively a pharmacist, a consumer,  
13 UDL, Actavis, FDA, Celsis Labs, a doctor or a hospital  
14 would notice something?

15 A. That's --

16 MR. MILLER: Object to form.

17 Sorry. Go ahead.

18 A. That's assuming that those systems are not  
19 set up to be challenged to find defects. Your system  
20 itself is supposed to be self-limiting, and your  
21 supply chain and distribution aspects are not meant to  
22 catch problems. Pharmacists and professionals in the  
23 distribution chain, if you are lucky, they are going  
24 to be vigilant and catch it. Have they been  
25 calibrated or are they checked?

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1           You can't rely on that, is my opinion.

2           Q.    I'm not asking you, Doctor -- or Dr. Somma,  
3    if you rely on that prospectively.

4           A.    Right.

5           Q.    I'm asking: After the fact; okay? Again,  
6    let's get back in. You are at Novartis and you have  
7    been called in --

8           A.    Right.

9           Q.    -- to one of your pharmaceutical clients.  
10   And somebody says, "I think we may have released  
11   tablets that are too thick, and if they are too thick  
12   they may have been outside the API specs;" okay?

13          A.    Right.

14          Q.    There are things to look at once the tablets  
15   leave your facility to see if, in fact, there were  
16   out-of-specification tablets; right?

17          A.    These are --

18          Q.    Yes or no? Things you can look at.

19          A.    Things that you can look at, yes.

20          Q.    All right. So one thing you might look at  
21   is: Did a repackager find any. Right?

22          A.    Right.

23          Q.    That's one thing you might look at.

24          A.    Right, yes.

25          Q.    And FDA tested tablets. Did they find any?

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1 A. Right.

2 MR. MILLER: Object to form.

3 Q. And pharmacists would be counting these out  
4 and distributing them; did they find any? Correct?

5 A. Correct.

6 Q. You are continuing your investigation; right?

7 A. Right.

8 Q. You are nodding yes?

9 A. Yes, I'm hearing you. Sorry.

10 Q. And then, of course, consumers get them; and  
11 they could either notice it because it looked  
12 different than other tablets --

13 A. Yes.

14 Q. -- or they might get sick; right?

15 A. Well, we have assumed they would get sick,  
16 yes.

17 Q. But these are things that a reasonable  
18 investigator would look at; right?

19 A. Uh-huh.

20 Q. Is that yes?

21 A. I would ask the questions, and to be  
22 perfectly honest, I probably wouldn't go beyond asking  
23 this Celsis and the packager. I mean, I'm -- in my  
24 opinion -- my personal opinion, that's reaching when  
25 you try to rely on pharmacists as I had mentioned

1 before. But I'm okay with you right out into the  
2 packaging part, yeah.

3 Q. But if you are desperately seeking  
4 information, any shred of proof, you would want to go  
5 all the way to the consumers; wouldn't you?

6 A. Yes, sir.

7 Q. You might look at Poison Center statistics to  
8 see if they'd noticed a spike in digoxin toxicity?

9 MR. MILLER: Objection to form.

10 Q. Would you do that?

11 A. It sounds like a great idea. I would not  
12 have thought to do that, yes.

13 MR. MORIARTY: What was the matter with the  
14 form on that?

15 MR. MILLER: Scope. Excuse me. Objection,  
16 scope.

17 Q. Could you look for Exhibit 37, please?

18 Now, I am missing an exhibit, I think.  
19 Somewhere in this should be the recall press release.  
20 Have you ever seen the recall press release  
21 of Digitek?

22 MR. MILLER: It's not that document. He  
23 pointed that document out, but that's not the  
24 document.

25 Q. I'll get to this one in a minute.



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1 But have you seen the recall press recess of  
2 Digitek?

3 A. I don't recall reading it, Matt, no.

4 Q. What is your understanding of why Digitek --  
5 I'm sorry. Let me rephrase that.

6 What is your understanding of what the FDA  
7 approved recall notice says about why Digitek was  
8 recalled?

9 MR. MILLER: Object to form.

10 THE WITNESS: Mark, read that question to me  
11 again, would you? If you don't mind.

12 Is it okay? I'm sorry.

13 (A discussion is held off the record.)

14 (The question is read.)

15 MR. MILLER: Again, object.

16 A. I haven't seen it, so I don't -- I can't  
17 really say.

18 Q. Okay. Here's Exhibit 36. It's the recall  
19 press release. I want you to take a look at that, and  
20 then if you don't mind, hand it back to me.

21 A. Sure thing.

22 Q. Because I seem to have coughed up all my  
23 copies of it.

24 Are you done reading it?

25 A. Yes, sir.

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1 Q. May I have that back, please?

2 A. Sure. Here you go.

3 Q. It says here, "The voluntary all-lot recall  
4 is due to the --"

5 MR. MILLER: I was trying to have a copy in  
6 front of him so he can read along with you.

7 MR. MORIARTY: Oh, that's fine. I appreciate  
8 it.

9 Q. "The voluntary all-lot recall is due to the  
10 possibility that tablets with double the appropriate  
11 thickness may have been commercially released."

12 Do you see that?

13 A. Yes, sir.

14 Q. Do you have any reason to disagree with that  
15 FDA-approved press release?

16 A. No, sir.

17 Q. And twice in that sentence that I just read,  
18 they use words connoting some degree of speculation.  
19 Is that right?

20 MR. MILLER: Object to form.

21 A. Yeah. "Possibility," "may have," yeah.

22 Q. Now, you can take a look at Exhibit 37.

23 A. Okay.

24 Q. Go to the third page. This is the recall  
25 package. Do you know what a recall package is?

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1 A. I'm not familiar with all its content. I've  
2 heard of it.

3 Q. Have you ever seen this document before,  
4 Exhibit 37?

5 A. In the -- In the spirit of what I  
6 investigated, Matt, I didn't look at stuff -- this  
7 stuff, like the recall package. I didn't look at  
8 that.

9 Q. Did you look at Exhibit 36, the recall press  
10 release?

11 A. No, sir.

12 Q. If you go down to "Reason For Recall" in  
13 Roman numeral III, it says, "Digoxin tablets exceeded  
14 the thickness specifications."

15 Do you see that?

16 A. Okay. Yeah. I got it.

17 Q. Now, have you seen anywhere at all any  
18 indication from FDA or from my client, Actavis, that  
19 this recall of Digitek in April of 2008 was for  
20 normal-sized tablets with varying amounts of the  
21 active pharmaceutical ingredient?

22 A. This clearly notes "tablet thickness."

23 Q. Now, I'm done asking you about that.

24 If you were called in as you were with one of  
25 your private consulting clients to analyze a thick

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1 tablet situation --

2 A. Yes, sir.

3 Q. -- typically you would think that that would  
4 be a tablet press issue. Is that right?

5 A. You'd want to -- you'd want to start at that  
6 point. It's the most likely.

7 Q. Okay.

8 A. Yes.

9 Q. And when you are looking for the cause of the  
10 extra-thick tablets, what you hope to get to is what  
11 you in the business call a root cause; right?

12 A. That's correct.

13 Q. So for a wild example, it could be a die set  
14 inappropriately calibrated; right?

15 A. Agreed.

16 Q. Okay. And that is --

17 Now, a normal-sized tablet with varying  
18 active pharmaceutical ingredient is a different or  
19 potentially different problem; isn't it?

20 A. Absolutely.

21 Q. So when you start looking for a root cause to  
22 that kind of problem, you have to go back to the  
23 mixing, the blending, the tableting? You have to go  
24 back to all of it; correct?

25 A. The non-homogeneity in a tablet, yes, Matt.

1 Q. And extra thick tablets and tablets of normal  
2 size with varying potency are really, when you get  
3 down to it, from a professional's end, different kinds  
4 of defects. Is that right?

5 A. I see them -- this is why -- it's not going  
6 to be yes or no.

7 If the thing was uniform, the thick tablet  
8 and non-uniform tablet, that problem is one and the  
9 same, because that thickness is going to be more  
10 potent, let potent. We don't know that in this  
11 particular case. In this particular case that is  
12 thick, but we don't know why or how much.

13 So the answer is -- to answer your question  
14 specifically, there are two different cases here.

15 Q. Okay. And the FDA would know the difference  
16 between those kind of problems; right?

17 A. You would hope.

18 Q. You would hope.

19 A. Okay.

20 Q. And so when the FDA approved the recall press  
21 release and the recall package announcing that this  
22 recall was for the possibility that double-thick  
23 tablets may have been commercially released, it has a  
24 little bit more meaning just beyond those simple  
25 words; correct?

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1 A. Presumably --

2 MR. MILLER: Object to the form.

3 MS. CARTER: Object to the form.

4 A. To me it does, yes.

5 Q. Okay. To you as a professional in the  
6 pharmaceutical industry, it does?

7 A. Right. That's what I'm saying.

8 Q. And as far as you can tell from all the  
9 material here, FDA did not cite or warn Actavis about  
10 Digitek that was normal in size, but outside its  
11 active pharmaceutical ingredients specifications. Is  
12 that right?

13 MR. MILLER: Object to form.

14 A. Yeah, Digitek tablets, no. The only thing  
15 was blend stuff that we talked about before.

16 Q. All right. Did the FDA ever ask Actavis to  
17 recall Digitek for blend uniformity issues?

18 A. Not to my knowledge, no.

19 Q. I want to show you what's been marked as  
20 Exhibit 38.

21 A. Okay.

22 Q. Have you ever seen this before?

23 A. It doesn't look familiar.

24 Q. It's a printout from the FDA's website.

25 A. Okay. I'm not a -- I don't customarily go

1 there and read stuff like this. I'm sorry. Okay?

2 Q. Okay.

3 A. Yeah.

4 Q. Well, once you were engaged in the Digitek  
5 litigation --

6 (A discussion is held off the record.)

7 Q. Once you were engaged in the Digitek  
8 litigation, even though you didn't customarily go to  
9 the FDA's website, did you do so to see what they said  
10 about the Digitek --

11 A. No, sir.

12 Q. -- recall?

13 A. No, sir. I went there to make sure that I  
14 had as much information as I needed about guidances in  
15 the area of uniformity.

16 Q. Okay. This is from a section of the FDA  
17 website that talks about facts and myths about generic  
18 drugs. Do you see that at the top?

19 A. Yes, sir.

20 Q. And then generally it has a fact --

21 MR. MORIARTY: I'm sorry. I'm going to  
22 withdraw that question.

23 Q. And if you look about halfway down, what FDA  
24 does here is they put a myth, and then they follow it  
25 up with a fact; correct?

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1 A. Right.

2 Q. Go to the second page, please. The first  
3 bolded myth at the top says, "There are quality  
4 problems with generic drug manufacturing. A recent  
5 recall of generic digoxin called Digitek shows that  
6 generic drugs put patients at risk."

7 Do you see that?

8 A. Uh-huh.

9 Q. And then the FDA follows up with the fact.  
10 "FDA's aggressive action in this case  
11 demonstrates the high standards to which all  
12 prescription drugs, generic and brand name, are held."

13 Do you see that?

14 A. Yeah.

15 Q. Now, let's go down to Bullet Point 4.

16 A. Right.

17 Q. The second sentence says, "In our best  
18 judgement, given the very small number of defective  
19 tablets that may have reached the market and the lack  
20 of reported adverse events before the recall, harm to  
21 patients was very unlikely."

22 Do you see that?

23 A. Uh-huh.

24 Q. That's a yes?

25 A. Yes, I see it.



1 Q. Do you have any reason to disagree with FDA's  
2 statement about this situation?

3 A. I don't think so.

4 MR. MILLER: Objection. Scope.  
5 Go ahead.

6 A. Yeah, I think so. Otherwise why would we be  
7 having this discussion here?

8 Q. Well, that's a really good question.  
9 Did you do a more thorough investigation than  
10 the FDA?

11 MS. CARTER: Object to form.

12 A. I did an investigation based on the  
13 information provided to me for this product, yes. Did  
14 I do more than FDA? No.

15 Q. All right. Well, what's the basis for your  
16 disagreement with the FDA's statement on its own  
17 website regarding this very situation?

18 A. Well, I don't think the necessary  
19 investigation into the manufacturing -- in the  
20 manufacturing area was conducted. That is still my  
21 opinion.

22 Q. I understand that.

23 A. Oh, okay.

24 Q. But FDA doesn't say anything about the  
25 investigation of 70924; does it?

1 MR. MILLER: Object to form.

2 Q. In this document?

3 A. No, sir, it doesn't.

4 Q. Okay. It's commenting on the situation  
5 overall?

6 A. Uh-huh.

7 Q. And clearly, FDA knew about the investigation  
8 of 70924 because they put it in -- in a 483; right?

9 A. Right.

10 Q. So let me get back to this and make sure I  
11 understand. It says, "In our best judgement given the  
12 very small number of defective tablets that may have  
13 reached the market and the lack of reported adverse  
14 events before the recall, harm to patients was very  
15 unlikely."

16 Do you have any reason to disagree with FDA  
17 in that statement?

18 MR. MILLER: Object to form. Asked and  
19 answered.

20 A. No. There is no reason to disagree with  
21 this.

22 Q. Okay. Is it your opinion that the  
23 investigation conducted by Actavis of the double-thick  
24 tablets in Batch 70924 was a cGMP failure?

25 MR. MILLER: I'll object to form.

1 MR. MORIARTY: Even when I ask you questions in  
2 your favor, you object.

3 Q. Go ahead.

4 A. I think that it was conducted in a way that  
5 it was aligned with cGMP. Was it conducted to what I  
6 would consider an adequate level? No.

7 Q. Was it negligent?

8 MR. MILLER: Object to form.

9 MS. CARTER: Object to form.

10 A. Was it negligent? Insofar as all the  
11 information wasn't there that I was looking for, I  
12 don't think it's negligence, but it certainly was not  
13 with the rigor that I would have expected.

14 Q. And that's your opinion?

15 A. That is my opinion, yes.

16 Q. Okay. Is there any specific FDA reg that  
17 says you need to -- you are required to analyze the  
18 batch before and the batch after in the course of an  
19 investigation like this?

20 MR. MILLER: Object to form.

21 A. I think it comes -- what it does, Matt, is  
22 it's customarily done. Is there a regulation that  
23 says you must do that? That's where business, science  
24 and regulations cross paths.

25 Q. All right. And the answer is?

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1 A. I don't think -- I could sit here and look it  
2 up. I don't think you would ever find something that  
3 says that specifically.

4 Q. All right. In the course of your  
5 investigation in this litigation, did you look at the  
6 last Digitek batch which precedes -- batch record for  
7 the batch which preceded 70924?

8 A. I got a batch record that was close. That  
9 was the one I had mentioned earlier. That was the  
10 best I could do.

11 Q. And did you also look at one following close  
12 after 70924?

13 A. Not to date, no, sir.

14 Q. Have you asked for one?

15 A. Yes, sir. I haven't read it.

16 Q. Okay. Did you find any problems in the batch  
17 record for the batch that preceded 70924?

18 A. Preceded? Based on that one?

19 Q. Yeah.

20 A. Batch record? No, no, sir.

21 Q. So if Actavis would have looked at the batch  
22 record for the batch preceding 70924 in the course of  
23 the actual investigation, it wouldn't have found  
24 anything either; right?

25 MS. CARTER: Object to form.

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1 A. My -- my guess, no. Because that's all part  
2 of rounding up the information. That's the first  
3 step.

4 Q. I'd like you to go to your report, please,  
5 which is --

6 MR. MORIARTY: Is it Exhibit 52?

7 MR. MILLER: Yes, it is.

8 Q. Your report is 14 pages long; right?

9 A. Yeah, yes, it is.

10 Q. Does the word "negligent" appear anywhere in  
11 these 14 pages?

12 A. Negligent? No, sir, I don't recall using  
13 that.

14 Q. Does the word "adulterated" appear anywhere  
15 in these 14 pages?

16 A. No, sir.

17 Q. Does the word "defective" appear anywhere in  
18 these 14 pages?

19 A. I don't recall.

20 Q. Okay. Let's go to Page 2. You comment under  
21 "Blending" that this is a dry blend direct compression  
22 process; correct?

23 A. That's right.

24 Q. Relatively speaking, is that a rather simple,  
25 solid oral dose formulation?